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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/837,897	04/18/2001	Stephen Allott	20408002000	8333

20350 7590 07/30/2003
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EXAMINER

GLENN, KIMBERLY E

ART UNIT	PAPER NUMBER
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2817

DATE MAILED: 07/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the inverting input of the second gm cell connected to the inverting input of the first gm cell must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: Claims 18, 26 and 32 recites the limitation "variable resistance". There is insufficient antecedent basis for this terminology in the specification.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 18-37 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed

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invention. The neither the specification, drawing or original claims disclose the nonlinear resistance shown in figure 5 being a (or plurality) native MOS device. In the specification, applicant discloses that the transconductance cell shown in figures 4 and 9 comprises of a transistor device 60 which function as load resistors for current sources 62 and 64. Applicant further disclosed that the transistor devices are native MOS devices. Applicant's specification is silent with regards to the non-linear resistor connected between the noninverting and inverting output of the first gm cell, which is disclosed in the independent claims. Therefore, reciting that that the non-linear resistor is a native MOS device constitutes new matter since neither the specification, drawing or original claims disclose such a limitation.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nauta US Patent 5,117,205 (figure 2), Koyama et al US Patent 5,384,501 (figures 3 and 4), Eschauzier US Patent 5,963,084 (figure 3), Mehr US Patent 6,545,534 (figure 2), Parkinson US Patent 5,210,450 (figure 1), Fensch US Patent 5,319,316 (figure 1A), Saitoh et al US Patent 4,710,654 (figures 1 and 3), Haque et al US Patent 4,533,876 and Brown US Patent 6,194,972 (figure 1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly E Glenn whose telephone number is (703) 306-5942. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (703) 308-4909. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Kimberly E Glenn
Examiner
Art Unit 2817

keg
July 17, 2003

A large, stylized handwritten signature in black ink, likely belonging to Robert Pascal, is written over the printed name and title.

Robert Pascal
Supervisory Patent Examiner
Technology Center 2800